

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

**PRIORITY** APPLICATION SERIAL NO ..... 09/966,158  
CONFIRMATION NO. .... None  
**PRIORITY** FILING DATE ..... September 28, 2001  
INVENTORSHIP ..... Yuichi Iikubo, et al.  
ASSIGNEE ..... PCBU Services, Inc.  
**PRIORITY** GROUP ART UNIT ..... 1621  
**PRIORITY** EXAMINER ..... Unknown  
ATTORNEY'S DOCKET NO ..... PC3-057  
CUSTOMER NO. .... 021567  
TITLE: Hydrogenation Processes

**INFORMATION DISCLOSURE STATEMENT**

**PURSUANT TO 37 C.F.R. §§ 1.56, 1.97 AND 1.98**

In compliance with 37 C.F.R. §§ 1.56, 1.97 and 1.98, your attention is directed to the United States patents and other references listed on the attached Form PTO-1449. No admission is made regarding whether all the submitted references are prior art.

The listed references were cited by, or submitted to, the Office in the parent, co-pending application of the above-identified application. The above-identified application is a divisional application of co-pending application Serial No. 09/966,158, filed September 28, 2001. Such prior disclosure is sufficient for the above-identified application as far as copies of the references are concerned. 37 C.F.R. § 1.98(d) and MPEP § 609(2).

Citation of these references is respectfully requested.

Respectfully submitted,

Dated: 10/31/03

By: [Signature]  
Robert C. Hyta  
Reg. No. 46,791

E 979978461

Form PTO-1449

U.S. DEPARTMENT OF COMMERCE  
PATENT AND TRADEMARK OFFICEATTY. DOCKET NO.  
PC3-057PRIORITY SERIAL NO.  
09/966.158LIST OF ART CITED BY APPLICANT  
(Use several sheets if necessary)APPLICANT  
Yuichi Ikubo, et al.PRIORITY FILING DATE  
9/28/01PRIORITY GROUP  
1621

## U.S. PATENT DOCUMENTS

*Examiner Initial		Document Number	Date	Name	Class	Subclass	Filing Date If Appropriate
	AA	2,494,064	01/50	Simons, et al.			
	AB	2,005,706	06/35	H.W. Daudt, et al.			
	AC	2,005,707	06/35	H.W. Daudt, et al.			
	AD	2,576,823	11/51	A.F. Benning, et al.			
	AE	2,697,124	12/54	R.M. Mantell, et al.			
	AF	2,900,423	08/59	L.B. Smith, et al.			
	AG	2,942,036	06/60	L.B. Smith, et al.			
	AH	3,258,500	06/66	F.W. Swamer, et al.			
	AI	3,436,430	04/69	L.E. Hall, et al.			
	AJ	3,636,173	01/72	L.E. Gardner			
	AK	3,803,241	04/74	I. Stolkin, et al.			
	AL	4,158,023	06/79	von Halasz			
	AM	5,043,491	08/91	Webster, et al.			
	AN	5,057,634	10/91	Webster, et al.			
	AO	5,068,472	11/91	Webster, et al.			
	AP	5,068,473	11/91	Kellner, et al.			

## FOREIGN PATENT DOCUMENTS

		Document Number	Date	Country	Class	Subclass	Translation	
							Yes	No
	AQ	1,162,511	05/91	CA				
	AR	2,081,813	10/92	CA				
	AS	0 349 115 A1	01/90	EP				
	AT	0 434 407 A1	06/91	EP				
	AU	0 442 075 B1	08/93	EP				

## OTHER REFERENCES (including Author, Title, Date, Pertinent Pages, Etc.)

	AV	Herbert O. House, "Catalytic Hydrogenation and Dehydrogenation," <i>Modern Synthetic Reactions</i> , 2 <sup>nd</sup> ed., The Benjamin/Cummings Publications Company (Menlo Park, CA), p. 1/2.					

EXAMINER

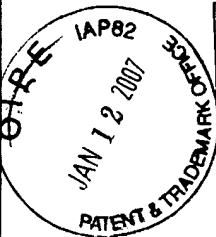
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LIST OF ART CITED BY APPLICANT (Use several sheets if necessary)				APPLICANT Yuichi Iikubo, et al.			
				PRIORITY FILING DATE 9/28/2001		PRIORITY GROUP 1621	
U.S. PATENT DOCUMENTS							
*Examiner Initial		Document Number	Date	Name	Class	Subclass	Filing Date If Appropriate
	AA	5,146,018	09/92	Kellner, et al.			
	AB	5,171,901	12/92	Cassen, et al.			
	AC	5,177,273	01/93	Bruhnke, et al.			
	AD	5,220,083	06/93	Webster, et al.			
	AE	5,268,343	12/93	Hopp, et al.			
	AF	5,364,992	11/94	Manogue, et al.			
	AG	5,430,204	07/95	Manogue, et al.			
	AH	5,446,219	08/95	Manogue, et al.			
	AI	5,621,151	04/97	Manogue			
	AJ	5,621,152	04/97	Jansen, et al.			
	AK	5,723,699	03/98	Miller, et al.			
	AL	5,902,911	05/99	Rao, et al.			
	AM	5,919,994	07/99	Rao			
	AN	6,018,083	01/00	Manogue, et al.			
	AO	6,156,944	12/00	Pham, et al.			
	AP	6,211,135	04/01	Miller, et al.			
FOREIGN PATENT DOCUMENTS							
		Document Number	Date	Country	Class	Subclass	Translation
							Yes    No
	AQ	0 539 989 A1	05/93	EF			
	AR	91:05752	05/91	WO			
	AS	96/17813	06/96	WO			
	AT	98/50327	11/98	WO			
	AU	99/26907	06/99	WO			
OTHER REFERENCES (including Author, Title, Date, Pertinent Pages, Etc.)							
	AV	Dmitrii D. Moldavskii. "Technology for the Preparation of Perfluoro-Organic Compounds," <i>Journal of Fluorine Chemistry</i> , Elsevier Science					
		S.A. (Netherlands), Vol. 94 (No. 2), p. 157-167, (February 5, 1999).					
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*Examiner Initial		Document Number	Date	Name	Class	Subclass	Filing Date If Appropriate
	AA						
FOREIGN PATENT DOCUMENTS							
		Document Number	Date	Country	Class	Subclass	<div style="text-align: center;">Translation</div> <div style="display: flex; justify-content: space-around; font-size: small;"> <span>Yes</span> <span>No</span> </div>
	AB	99/62851	12/99	WO			
	AC	428,361	09/30	UK			
	AD	428,445	05/35	UK			
	AE	468,447	08/37	UK			
	AF	790,335	02/58	UK			
	AG	1,077,932	08/67	UK			
	AH	1,359,023	07/74	UK			
	AI	1,578,933	11/80	UK			
	AJ						
OTHER REFERENCES (including Author, Title, Date, Pertinent Pages, Etc.)							
	AK	J. Kvicala, et al., "Preparation of Perhalogenated Chlorofluoropropanes by Halogen Exchange in the Liquid and Vapour Phases and Their Isomer Analyses by 19F NMR Spectroscopy," <i>Journal of Fluorine Chemistry</i> , Elsevier Sequoia (Netherlands), p. 155-175, (February 5, 1989).					
	AL	F.J. Mettille, et al., "Methods for the Introductions of Hydrogen Into Fluorinated Compounds," <i>Fluorine Chemistry Reviews</i> , 1 <sup>st</sup> ed., Vol. 1 (No. 2), p. 315-358, (February 5, 1967).					
	AM	Dr. Mark D. Cisneros, et al., "An Integrated Approach to Achieve Low Environmental Impact in the Special Hazards Fire Suppression Industry," Great Lakes Chemical Corporation (West Lafayette, Indiana), p. 1-8.					
	AN	Viacheslav A. Petrov, et al., "Isomerization of Halopolyfluoroalkanes by the Action of Aluminum Chlorofluoride," <i>Journal of Fluorine Chemistry</i> , Elsevier Science S.A. (Netherlands), p. 125-130, (February 5, 1998).					
	AO	B.P. Aggarwal, et al., "Chlorination of Propane and Propylene and Pyrolysis of Perchloropropane," <i>Petroleum &amp; Hydrocarbons</i> , Vol. 3 (No. 2), p. 69-72, (July 5, 1968).					
	AP	Albert L. Henne, et al., "Fluorinated Derivatives of Propane and Propylene," p. 496-497, (March 5, 1946).					
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<b>LIST OF ART CITED BY APPLICANT</b> (Use several sheets if necessary)				APPLICANT Yuichi Iikubo, et al.			
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U.S. PATENT DOCUMENTS							
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	AA						
FOREIGN PATENT DOCUMENTS							
		Document Number	Date	Country	Class	Subclass	Translation Yes      No
	AB						
	AC						
	AD						
	AE						
	AF						
	AG						
	AH						
	AI						
	AJ						
OTHER REFERENCES (including Author, Title, Date, Pertinent Pages, Etc.)							
	AK		Kirk-Othmer, "Encyclopedia of Chemical Technology," <i>Catalysis</i> , 3 <sup>rd</sup> ed., John Wiley & Sons (New York), p. 16-18.				
	AL		Milos Hudlicky, "Chemistry of Organic Fluorine Compounds, A Laboratory Manual with Comprehensive Literature Coverage, 2 <sup>nd</sup> ed., Ellis Horwood (New York), p. 170-179. (February 8, 1992).				
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Form PTO-1449				U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE		ATTY. DOCKET NO. PC3-037		PRIORITY SERIAL NO. 09/966,158	
LIST OF ART CITED BY APPLICANT (Use several sheets if necessary)						APPLICANT Yuichi Iikubo, et al.		PRIORITY FILING DATE 9/28/2001	
								PRIORITY GROUP 1621	
U.S. PATENT DOCUMENTS									
Examiner Initial		Document Number	Date	Name	Class	Subclass	Filing Date If Appropriate		
KP	AA	2,494,064	01/50	Simons, et al.					
	AB	2,005,706	06/35	H.W. Daudt, et al.					
	AC	2,005,707	06/35	H.W. Daudt, et al.					
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	AE	2,697,124	12/54	R.M. Mantell, et al.					
	AF	2,900,423	08/59	L.B. Smith, et al.					
	AG	2,942,036	06/60	L.B. Smith, et al.					
	AH	3,258,500	06/66	F.W. Swamer, et al.					
	AI	3,436,430	04/69	L.E. Halle, et al.					
	AJ	3,636,173	01/72	L.E. Gardner					
	AK	3,803,241	04/74	I. Stolkin, et al.					
	AL	4,158,023	06/79	von Halasz					
	AM	5,043,491	08/91	Webster, et al.					
	AN	5,057,634	10/91	Webster, et al.					
	AO	5,068,472	11/91	Webster, et al.					
KP	AP	5,068,473	11/91	Kellner, et al.					
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KP	AU	0 442 075 B1	08/93	EP					
OTHER REFERENCES (Including Author, Title, Date, Pertinent Pages, Etc.)									
KP	AV	Herbert O. House, "Catalytic Hydrogenation and Dehydrogenation," Modern Synthetic Reactions, 2 <sup>nd</sup> ed., The Benjamin/Cummings Publications Company (Menlo Park, CA), p. 1/4							
EXAMINER /Karl Puttlitz/					DATE CONSIDERED /Karl Puttlitz/				
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MAY-03-2004 09:14 MELLIS ST JOHN PS 5098383424 P.01

### IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

APPLICATION SERIAL NO ..... 10/698,923  
FILING DATE ..... October 31, 2003  
INVENTORSHIP ..... Yuichi Iikubo, et al.  
ASSIGNEE ..... PCBU Services, Inc.  
GROUP ART UNIT ..... 1621  
EXAMINER ..... Unknown  
ATTORNEY'S DOCKET NO ..... PC3-057  
TITLE: ..... Hydrogenation Processes


Commissioner for Patents  
P.O. Box 1450  
Alexandria VA 22313-1450

### CERTIFICATE OF FACSIMILE TRANSMISSION UNDER 37 CFR 1.8

I hereby certify that the following papers are being facsimile transmitted to the Patent and Trademark Office at (703) 872-9306 on the date shown below:

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3. Supplemental Information Disclosure Statement with Form PTO-1449
4. Cited References (5)

Dated: 5/3/2004

By:   
Natalie King  
Telephone No. (509) 624-4276  
Facsimile No. (509) 838-3424

NUMBER OF PAGES IN FACSIMILE: 30



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

APPLICATION SERIAL NO ..... 10/698,923  
FILING DATE ..... October 31, 2003  
INVENTORSHIP ..... Yuichi Iikubo, et al.  
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EXAMINER ..... Unknown  
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Dated: 5/3/2004

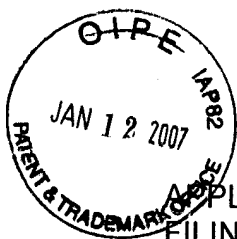
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Natalie King  
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FILING DATE ..... October 31, 2003  
INVENTORSHIP ..... Yuichi Iikubo, et al.  
ASSIGNEE ..... PCBU Services, Inc.  
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EXAMINER ..... Unknown  
ATTORNEY'S DOCKET NO ..... PC3-057  
TITLE: ..... Hydrogenation Processes

**SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT**

References –See Attached Form PTO-1449

The Examiner's attention is directed to the references which are listed on the attached Form PTO-1449, copies of which are attached. No admission is made regarding whether all the submitted references are prior art.

Citation of the referenced art is respectfully requested.

This Supplemental Information Disclosure Statement is being filed before the mailing date of a first Office Action. Therefore, no fee is believed to be required. However, in the event that a fee is required for filing this Information Disclosure Statement, please charge the fee specified under 37 C.F.R. § 1.17(p) to Deposit Account No. 23-0925.

Respectfully submitted,

Dated: \_\_\_\_\_

*4/30/04*

By: \_\_\_\_\_

*[Signature]*

Robert C. Hyta  
Reg. No. 46,791

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Form PTO-1449

U.S. DEPARTMENT OF COMMERCE  
PATENT AND TRADEMARK OFFICEATTY. DOCKET NO.  
PC3-057SERIAL NO.  
10/698,923

## LIST OF ART CITED BY APPLICANT

(Use several sheets if necessary)

APPLICANT  
Yuichi Iikubo, et al.FILING DATE  
10/31/2003GROUP  
1621

## U.S. PATENT DOCUMENTS

*Examiner Initial		Document Number	Date	Name	Class	Subclass	Filing Date If Appropriate
	AA	2,494,064	1/10/1950	Simons et al.			
	AB						
	AC						
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	AH						

## FOREIGN PATENT DOCUMENTS

		Document Number	Date	Country	Class	Subclass	Translation	
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	AN	EP 0 539 989 B1	6/18/1997	EPO				
	AO	99/51553	10/14/1999	PCT				
	AP							
	AQ							

## OTHER REFERENCES (including Author, Title, Date, Pertinent Pages, Etc.)

	AR		"Technology of Fluoropolymers" Drobny; CRC Press; Vols. 78-79; pps. 8-11, and 18-19.
	AS		
	AT		

EXAMINER

DATE CONSIDERED

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WELLS ST JOHN PS

5098383424 P.04

Form PTO-1449		U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE		ATTY. DOCKET NO. PCJ-027		SERIAL NO. 10/598,923	
LIST OF ART CITED BY APPLICANT (Use several sheets if necessary)				APPLICANT Yoshihiko et al.			
				FILING DATE 10/31/2003		GROUP 1621	
U.S. PATENT DOCUMENTS							
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KP	AA	2,494,064	1/10/1950	Simons et al.			
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FOREIGN PATENT DOCUMENTS							
		Document Number	Date	Country	Class	Subclass	Translation Yes No
KP	AM	501,590	8/1/1962	UK			
KP	AN	EP 0 339 989 B1	6/18/1997	EPO			
KP	AO	99/51533	10/14/1999	PCJ			
	AP						
	AQ						
OTHER REFERENCES (including Author, Title, Date, Pertinent Pages, Etc.)							
	AR		"Technology of Fivorepelymers" Draboy; CRC Press; Vol. 76-79; pp. 8-11, and 18-19.				
	AS						
	AT						
EXAMINER /Karl Puttlitz/				DATE CONSIDERED 09/29/2006			
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Cover  
Page

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OCT-21-2004 13:55 WELLS ST JOHN PS 5098383424 P.01/31

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Inventor ..... Yuichi Iikubo et al.  
Assignee ..... PCBU Services, Inc.  
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Dated: October 21, 2004

By: Muriel G. Dunnigan  
Muriel G. Dunnigan  
Telephone No. (509) 824-4276  
Facsimile No. (509) 838-3424

NUMBER OF PAGES IN FACSIMILE: 31

### SEE DEFICIENCY

Although it is believed that no fees are due, the Commissioner is hereby authorized to charge any fees under 37 C.F.R. 1.16 and 1.17 which may be required by this paper to Deposit Account No. 23-0925.

Dated: 10/21/04

By: Robert G. Hyta  
Robert G. Hyta; Reg. No. 46,791  
Telephone No. (509) 824-4276

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Robert C. Hyta; Reg. No. 46,791  
Telephone No. (509) 624-4276



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**By Facsimile 1 (703) 872-9306**

From: Robert C. Hyta (Tel. 509-624-4276; Fax 509-838-3424)  
Wells St. John P.S.  
601 W. First Avenue, Suite 1300  
Spokane, WA 99201-3828



Dear Sir:

The Examiner's attention is directed to the reference which is listed on the attached Form PTO-1449 and a copy of which are attached.

Citation of the referenced art is respectfully requested.


This Supplemental Information Disclosure Statement is being filed before the mailing date of a first Office Action. Therefore, no fee is believed to be required. However, in the event that a fee is required for filing this Supplemental

Information Disclosure Statement, please charge the fee specified under 37  
C.F.R. § 1.17 (p) to Deposit Account No. 23-0925.

Respectfully submitted,

Dated: 10/21/07

By:

  
Robert C. Hyta  
Reg. No. 46,791

Form PTO-1449

U.S. DEPARTMENT OF COMMERCE  
PATENT AND TRADEMARK OFFICEATTY. DOCKET  
PCJ-057SERIAL NO.  
10/698,923LIST OF ART CITED BY APPLICANT  
(Use several sheets if necessary)APPLICANT  
Yuichi Iikubo et al.FILING DATE  
October 31, 2003GROUP  
1621

## U.S. PATENT DOCUMENTS

Examiner Initial		Document Number	Date	Name	Class	Subclass	Filing Date If Appropriate
	AA						
	AB						
	AC						
	AD						
	AE						
	AF						
	AG						
	AH						
	AI						
	AJ						
	AK						
	AL						

## FOREIGN PATENT DOCUMENTS

		Document Number	Date	Country	Class	Subclass	Translation	
							Yes	No
	AM	PCT/US02/30729	09/27/2002	PCT-International Preliminary Examination Report				
	AN							
	AO							
	AP							
	AQ							

## OTHER REFERENCES (including Author, Title, Date, Pertinent Pages, Etc.)

	AR		
	AS		
	AT		
EXAMINER		DATE CONSIDERED	

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.





IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Application Serial No. .... 10/698,923  
Filing Date ..... October 31, 2003  
Inventor ..... Yuichi Iikubo, et al.  
Assignee ..... PCBU Services, Inc.  
Group Art Unit ..... 1621  
Examiner ..... Karl J. Puttlitz  
Attorney's Docket No. .... PC3-057  
Title ..... Hydrogenation Processes

**SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT**

The attached Form PTO-1449 is submitted in compliance with 37 C.F.R. §§ 1.56, 1.97 and 1.98. Pursuant to Federal Register Vol. 69, No. 182, pg. 56542 (September 21, 2004) no copies on any cited U.S. patents or U.S. published application are included herewith. No admission is made regarding whether all the submitted references are prior art.

The listed article and foreign references not included herewith were cited by, or submitted to, the Office in the parent, co-pending application of the above-identified application. The above-identified application is a divisional application of co-pending application Serial No. 09/966,158 filed September 28, 2001. Such prior disclosure is sufficient for the above-identified application as far as copies of the references are concerned. 37 C.F.R. § 1.98(d) and MPEP § 609(2).

01/16/2007 SSITHIB1 00000081 10698923

01 FC:1806


180.00 OP

Citation of these references is respectfully requested.

A check in the amount of \$180.00 is enclosed to cover the fee specified under 37 C.F.R. § 1.17(p).

Respectfully submitted,

Dated: 1/12/07

By:   
Robert C. Hyta  
Reg. No. 46,791

Form PTO-1449

U.S. DEPARTMENT OF COMMERCE  
PATENT AND TRADEMARK OFFICEATTY. DOCKET NO.  
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1621

## U.S. PATENT DOCUMENTS

*Examiner Initial		Document Number	Date	Name	Class	Subclass	Filing Date If Appropriate
	AA	5,302,765	04/1994	Manzer, et al.			
	AB	6,207,865	03/2001	Breitscheidel, et al.			
	AC						
	AD						
	AE						
	AF						
	AG						

## FOREIGN PATENT DOCUMENTS

		Document Number	Date	Country	Class	Subclass	Translation	
							Yes	No
	AH	WO 99/51555	10/99	PCT				
	AI	WO 02/40102 A2 & A3	05/02	PCT				
	AJ	WO 02/078788 A2 & A3	10/02	PCT				
	AK	WO 02/078790 A2 & A3	10/02	PCT				
	AL	PCT/US2004/011563	04/04	PCT IPRP/Written Opinion				
	AM	PCT/US2004/011563	04/04	PCT Search Report				

## OTHER REFERENCES (including Author, Title, Date, Pertinent Pages, Etc.)

	AN	Derwent Publications, Ltd., Abstract, SU/715092, February 18, 1980, 1 page
EXAMINER	DATE CONSIDERED	

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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